

FILE

(IMPORTANT: Type or print, read instructions before completing form)

**EPA**

United States

Environmental Protection  
Agency**FORM R****TOXIC CHEMICAL RELEASE  
INVENTORY REPORTING FORM**Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986,  
also known as Title III of the Superfund Amendments and Reauthorization Act

**WHERE TO SEND COMPLETED FORMS:** 1. EPCRA Reporting Center 2. APPROPRIATE STATE OFFICE  
P.O. Box 3348 (See instructions in Appendix F)  
Merrifield, VA 22116-3348  
ATTN: TOXIC CHEMICAL RELEASE INVENTORY

Enter "X" here if this  
is a revision

For EPA use only

**Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.****PART I. FACILITY IDENTIFICATION INFORMATION****SECTION 1. REPORTING YEAR 2001****SECTION 2. TRADE SECRET INFORMATION**

**2.1** Are you claiming the toxic chemical identified on page 2 trade secret?  
☐ Yes (Answer question 2.2; Attach substantiation forms) ☒ NO (Do not answer 2.2; Go to Section 3)

**2.2** Is this copy ☐ Sanitized ☐ Unsanitized  
(Answer only if "YES" in 2.1)

**SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)**

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:

Signature:

Date Signed:

William M. Rosen Manager

James Brown

James Brown

06/27/2002

**SECTION 4. FACILITY IDENTIFICATION**

**4.1** TRI Facility ID Number 98134LSKNC32006

Facility or Establishment Name ALASKAN COPPER WORKS

Facility or Establishment Name or Mailing Address (if different from street address) ALASKAN COPPER WORKS

Street 3200 6TH AVE SOUTH

Mailing Address P.O. BOX 3546

City/County/State/Zip Code SEATTLE KING W 98134

City/State/Zip Code SEATTLE W 98124

Country (Non-US)

**4.2** This report contains information for:  
(Important: check a or b; check c or d if applicable) a. ☒ An entire facility b. ☐ Part of a facility c. ☐ A Federal facility d. ☐ GOCO

**4.3** Technical Contact Name PAT WHELAN Telephone Number (include area code) (800) 800-7644

**4.4** Public Contact Name JAMES BROWN Telephone Number (include area code) (206) 623-5800

**4.5** SIC Code (s) (4 digits) Primary a. 3498 b. 3471 c. 3443 d. e. f.

**4.6** Latitude Degrees 47 Minutes 34 Seconds Longitude Degrees 122 Minutes 19 Seconds

**4.7** Dun & Bradstreet Number(s) (9 digits) a. 009255571

**4.8** EPA Identification Number (RCRA I.D. No.) (12 characters) a. WAD980738546

**4.9** Facility NPDES Permit Number(s) (9 characters) a. NA

**4.10** Underground Injection Well Code (UIC) I.D. Number(s) (12 digits) a. NA

**SECTION 5. PARENT COMPANY INFORMATION**

**5.1** Name of Parent Company NA ALASKAN COPPER COMPANIES

**5.2** Parent Company's Dun & Bradstreet Number NA 009255571

**EPA FORM R**  
**PART II. CHEMICAL - SPECIFIC INFORMATION**

TRI Facility ID Number
98134LSKNC32006
Toxic Chemical, Category or Generic Name
Manganese Compounds

**SECTION 1. TOXIC CHEMICAL IDENTITY**

(Important: DO NOT complete this section if you completed Section 2 below.)

<b>1.1</b>	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) N450
<b>1.2</b>	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Manganese Compounds
<b>1.3</b>	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.) NA

**Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category.**

(If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)

<b>1.4</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**SECTION 2. MIXTURE COMPONENT IDENTITY**

(Important: DO NOT complete this section if you completed Section 1 above.)

<b>2.1</b>	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) NA
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**SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY**

(Important: Check all that apply.)

<b>3.1</b>	<b>Manufacture the toxic chemical</b>	<b>3.2</b>	<b>Process the toxic chemical:</b>	<b>3.3</b>	<b>Otherwise use the toxic chemical:</b>
a. <input type="checkbox"/> Produce	b. <input checked="" type="checkbox"/> Import	a. <input type="checkbox"/> As a reactant	b. <input type="checkbox"/> As a formulation component	a. <input type="checkbox"/> As a chemical processing aid	b. <input type="checkbox"/> As a manufacturing aid
If produce or import:		c. <input checked="" type="checkbox"/> As an article component	d. <input type="checkbox"/> Repackaging	c. <input type="checkbox"/> Ancillary or other use	
c. <input checked="" type="checkbox"/> For on-site use/processing	d. <input type="checkbox"/> For sale/distribution	e. <input type="checkbox"/> As an impurity			
e. <input type="checkbox"/> As a byproduct	f. <input type="checkbox"/> As an impurity				

**SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR**

<b>4.1</b>	04 (Enter two-digit code from instruction package.)
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**SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE**

		A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
<b>5.1</b>	Fugitive or non-point air emissions	NA <input type="checkbox"/>	A	O
<b>5.2</b>	Stack or point air emissions	NA <input checked="" type="checkbox"/>		
<b>5.3</b>	Discharges to receiving streams or water bodies (enter one name per box)			
	Stream or Water Body Name			
<b>5.3.1</b>	NA			
<b>5.3.2</b>				
<b>5.3.3</b>				

If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box  and indicate the Part II, Section 5.3 page number in this box.  (example: 1,2,3, etc.)

\* For Dioxin or Dioxin-like compounds, report in grams/year

\*\* Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

## EPA FORM R

## PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number

98134LSKNC32006

Toxic Chemical, Category, or Generic Name

Manganese Compounds

## SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		NA	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4.1	Underground Injection onsite to Class I Wells	<input checked="" type="checkbox"/>		
5.4.2	Underground Injection onsite to Class II-V Wells	<input checked="" type="checkbox"/>		
5.5	Disposal to land onsite			
5.5.1.A	RCRA Subtitle C landfills	<input checked="" type="checkbox"/>		
5.5.1.B	Other landfills	<input checked="" type="checkbox"/>		
5.5.2	Land treatment/application farming	<input checked="" type="checkbox"/>		
5.5.3	Surface Impoundment	<input checked="" type="checkbox"/>		
5.5.4	Other disposal	<input checked="" type="checkbox"/>		

## SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

## 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

## 6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1. Total Transfers (pounds/year\*)  
(enter range code\*\* or estimate)6.1.A.2 Basis of Estimate  
(enter code)

A

O

6.1.B 1	POTW Name	METRO						
POTW Address		821 SECOND AVE						
City	SEATTLE	State	WA	County	KING	Zip	98104	

6.1.B	POTW Name							
POTW Address								
City		State		County		Zip		

If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages

in this box  and indicate the Part II, Section 6.1 page number in this box  (example: 1,2,3, etc.)

## SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. 1 Off-Site EPA Identification Number (RCRA ID No.)

AZD980735500

Off-Site Location Name

WORLD RESOURCES COMPANY

Off-site Address

8113 WEST SHERMAN

City	PHOENIX	State	AZ	County	MARICOPA	Zip	85043	Country (Non-US)	
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Is location under control of reporting facility or parent company?

☐

Yes

☒

No

\* For Dioxin or Dioxin-like compounds, report in grams/year

\*\* Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

## EPA FORM R

## PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number

98134LSKNC32006

Toxic Chemical, Category, or Generic Name

Manganese Compounds

## SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year\*)  
(enter range code\*\* or estimate)B. Basis of Estimate  
(enter code)C. Type of Waste Treatment/Disposal/  
Recycling/Energy Recovery (enter code)

1. B	1. O	1. M24
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

6.2. Off-Site EPA Identification Number (RCRA ID No.)

Off-Site location Name

Off-site Address

City		State		County		Zip		Country (Non-US)	
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Is location under control of reporting facility or parent company?

☐ Yes ☐ NoA. Total Transfers (pounds/year\*)  
(enter range code\*\* or estimate)B. Basis of Estimate  
(enter code)C. Type of Waste Treatment/Disposal/  
Recycling/Energy Recovery (enter code)

1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

## SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

☒ Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]	c. Range of Influent Concentration	d. Waste Treatment Efficiency Estimate	e. Based on Operating Data ?
7A.1a	7A.1b	7A.1c	7A.1d	7A.1e
	1 2 3 4 5 6 7 8		%	Yes No <input type="checkbox"/> <input type="checkbox"/>
7A.2a	7A.2b	7A.2c	7A.2d	7A.2e
	1 2 3 4 5 6 7 8		%	Yes No <input type="checkbox"/> <input type="checkbox"/>
7A.3a	7A.3b	7A.3c	7A.3d	7A.3e
	1 2 3 4 5 6 7 8		%	Yes No <input type="checkbox"/> <input type="checkbox"/>
7A.4a	7A.4b	7A.4c	7A.4d	7A.4e
	1 2 3 4 5 6 7 8		%	Yes No <input type="checkbox"/> <input type="checkbox"/>
7A.5a	7A.5b	7A.5c	7A.5d	7A.5e
	1 2 3 4 5 6 7 8		%	Yes No <input type="checkbox"/> <input type="checkbox"/>

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box  
and indicate the Part II, Section 6.2/7A page number in this box: (example: 1,2,3, etc.)

\* For Dioxin or Dioxin-like compounds, report in grams/year

## EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number

98134LSKNC32006

Toxic Chemical, Category, or Generic Name

Manganese Compounds

## SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

☒

Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1  2  3  4 

## SECTION 7C. ON-SITE RECYCLING PROCESSES

☒

Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1  2  3  4  5   
6  7  8  9  10 

## SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1	Quantity released ***	5	5	5	5
8.2	Quantity used for energy recovery onsite	NA	NA	NA	NA
8.3	Quantity used for energy recovery offsite	NA	NA	NA	NA
8.4	Quantity recycled onsite	NA	NA	NA	NA
8.5	Quantity recycled offsite	300	315	330	330
8.6	Quantity treated onsite	NA	NA	NA	NA
8.7	Quantity treated offsite	NA	NA	NA	NA
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)	NA			
8.9	Production ratio or activity index	90.00			
8.10	Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.				
	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)			
8.10.1	W19	a. T04	b.	c.	
8.10.2	W21	a. T03	b.	c.	
8.10.3	W36	a. T01	b.	c.	
8.10.4	NA	a.	b.	c.	
8.11	Is additional information on source reduction, recycling, or pollution control activities included with this report? (Check one Box)			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

EPA Form 9350-1 (Rev. 01/2001) - Previous editions are obsolete.

\*For Dioxin or Dioxin-like compounds, report in grams/year

\*\*\*Report releases pursuant to EPCRA Section 329 (8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping,